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(54) **REDUCING TOUCH PIXEL COUPLING**

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CPC **G06F 3/044** (2013.01); **G06F 3/0412** (2013.01); **G06F 2203/04107** (2013.01)

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G06F 3/045; G06F 3/044; G06F 3/0412;
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See application file for complete search history.

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ABSTRACT

A touch screen to reduce touch pixel coupling. In some examples, the touch screen can include a first display pixel and a second display pixel in a row of display pixels, where the first display pixel can be configurable to be decoupled from the second display pixel during at least a touch sensing phase of the touch screen. In some examples, the touch screen can include a display pixel having a first and a second transistor, where the second transistor can be electrically connected to a gate terminal of the first transistor, and can be diode-connected. In some examples, the touch screen can include two display pixels, each display pixel having two transistors, where two of the transistors can be electrically connected to a first gate line, and the remaining two transistors can be individually electrically connected to a second and third gate line, respectively.

26 Claims, 13 Drawing Sheets

